

CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE LOWER ELK RIVER WATERSHED

4.1. Background.

4.2. Characterization of HUC-10 Subwatersheds

4.2.A. 0603000401 (Elk River)

4.2.B. 0603000402 (Richland Creek)

4.2.C. 0603000403 (Big Creek)

4.2.D. 0603000404 (Sugar Creek)

4.1. BACKGROUND. This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 1998 303(d) list
- iii. Description of nonpoint source contributions

The Lower Elk River Watershed (HUC 06030004) has been delineated into four HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 1.1 beta (developed by Tetra Tech, Inc for EPA Region 4) released in 2000.

WCS integrates with ArcView® v3.2 and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

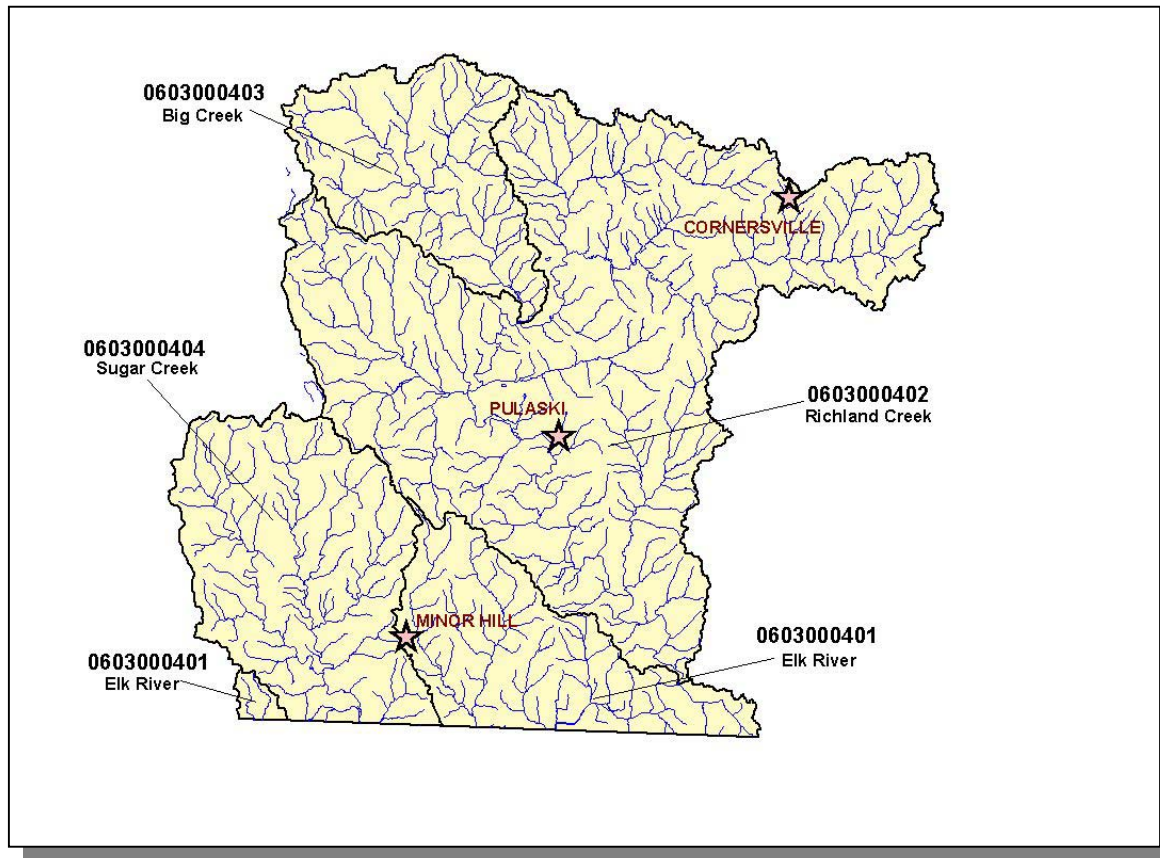


Figure 4-1. The Tennessee Portion of the Lower Elk River Watershed is Composed of Four USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Cornersville, Minor Hill, and Pulaski are shown for reference.

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the Lower Elk River Watershed.

HUC-10	HUC-12
0603000401	060300040101 (Elk River)
	060300040102 (Shoal Creek)
	060300040104 (Anderson Creek)
0603000402	060300040201 (Richland Creek)
	060300040202 (Richland Creek)
	060300040203 (Robertson Fork)
	060300040204 (Richland Creek)
	060300040205 (Weakley Creek)
	060300040206 (Richland Creek)
	060300040207 (Buchanan Creek)
	060300040208 (Richland Creek)
0603000403	060300040301 (Factory Creek)
	060300040302 (Yokely Creek)
	060300040303 (Big Creek)
0603000404	060300040401 (East Fork Sugar Creek)
	060300040402 (West Fork Sugar Creek)
	060300040403 (Sugar Creek)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.